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**GEOMETRY – PACING GUIDE**

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| **FIRST QUARTER** |
| **UNIT** | **PACING** | **TOPICS** |
| **Geometry: Properties, Dimension, and Modeling****(Chapters 1, 2, & 3)****& *Introductory Unit to Transformations.******\*See curriculum guide for specific sections to cover in Chapter 2.*** | **7.5 weeks** | * **Tools of Geometry**
* **Parallel & Perpendicular Lines**
* **Use coordinates to prove simple geometric theorems algebraically**
* **Explain volume formulas and use them to solve problems**
* **Apply geometric concepts in modeling situations**
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| **Congruence****(Chapter 4: *Sections 1 – 4*)** | **1.5 weeks** | * **Experiment with transformations in the plane**
* **Understand congruence in terms of rigid motions**
* **Prove geometric theorems**
* **Make geometric constructions**
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| **SECOND QUARTER** |
| **UNIT** | **PACING** | **TOPICS** |
| **Congruence****(Chapter 4: *Sections 5 – 8*)****&****(Chapter 5 *with Lesson 10.5*)****&****(Chapter 6)** | **7.5 weeks** | * **Experiment with transformations in the plane**
* **Understand congruence in terms of rigid motions**
* **Prove geometric theorems**
* **Make geometric constructions**
* **Inscribed & Circumscribed Circles**
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| **Similarity, Right Triangles, & Trigonometry****(Chapter 7: *Sections 1 – 3)*** | **1.5 weeks** | * **Understand similarity in terms of similarity transformations**
* **Prove theorems involving similarity**
* **Define trigonometric ratios and solve problems involving right triangles**
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| **THIRD QUARTER** |
| **UNIT** | **PACING** | **TOPICS** |
| **Similarity, Right Triangles, & Trigonometry****(Chapter 7: *Sections 4 – 7 with Lesson 9.6)******&******(*Chapter 8: *Sections 1 – 5)******&******(*Chapter 9: *Sections 1 – 5)*** | **8 weeks** | * **Understand similarity in terms of similarity transformations**
* **Prove theorems involving similarity**
* **Define trigonometric ratios and solve problems involving right triangles**
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| **FOURTH QUARTER** |
| **UNIT** | **PACING** | **TOPICS** |
| **Circles****(Chapter 10)** | **2.5 weeks** | * **Understand and apply theorems about circles**
* **Find arc lengths and areas of sectors of circles**
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| **Geometry: Properties, Dimension, and Modeling****(Chapter 11 & 12)** | **5.5 weeks** | * **Translate between the geometric description and the equation for a conic section**
* **Visualize relationships between two-dimensional and three-dimensional objects**
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